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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/586,922	07/24/2006	Atsushi Matsutani	292901US8PCT	8179

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OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, L.L.P.  
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ALEXANDRIA, VA 22314

EXAMINER
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ROBINSON, GRETA LEE

ART UNIT	PAPER NUMBER
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2169

NOTIFICATION DATE	DELIVERY MODE
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07/15/2010

ELECTRONIC

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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<b>Office Action Summary</b>	<b>Application No.</b> 10/586,922	<b>Applicant(s)</b> MATSUTANI, ATSUSHI	
	<b>Examiner</b> Greta L. Robinson	<b>Art Unit</b> 2169	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 30 April 2010.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1,2,4-8 and 10-15 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1,2,4-8 and 10-15 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948)   | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date <u>6/2/10</u> . | 6) <input type="checkbox"/> Other: _____  |

### **DETAILED ACTION**

1. Claims 1, 2, 4-8 and 10-15 are pending in the present application. Claims 1, 4-7 and 10-13 have been amended. Claims 3 and 9 have status cancelled.

### ***Information Disclosure Statement***

2. The information disclosure statement (IDS) submitted on June 2, 2010 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement has been considered by the examiner.

### ***Claim Rejections - 35 USC § 102***

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1, 2, 4-8 and 10-15 are rejected under 35 U.S.C. 102(e) as being anticipated by Kanemitsu et al. US Patent 6,928,262 B1.

Regarding claim 1, **Kanemitsu** teaches a program search system [note: “A broadcast receiving device which clearly indicates supplemental information transmitted along with broadcast content, and which **facilitates program search**” abstract ] comprising:

a keyword registration unit configured to register a keyword for showing the user's preference in broadcast programs [note: column 3 line 63 through column 4 line 11 keyword mode switching means provides ability to obtain **registered keywords** for topic information search registered keywords are stored as keywords in keyword storing means; Figures 25-25; col. 3 lines 56-57 ];

a communication unit, including a processor, configured to receive broadcast content information including the titles of said broadcast programs that will be broadcasted by one or more broadcasting stations [note: Figure 1 (17) input device; and processor means column 2 lines 59-67; note “**processor 7**” column 8 lines 59-61 and Figure 1]; and

a detector configured to detect an appearance frequency of said keyword by said broadcast programs by searching broadcast content information received by said hardware communication unit, said detector configured to generate a ranking of said broadcast programs in descending order of a higher appearance frequency of said keyword as a search result, the detector configured to generate the ranking based on the number of times the keyword appears in each broadcast program [note: Figure 1 310 **EIT analyzer** (i.e. detector) column 8 line 62 through column 9 line 19 music is detected through the content descriptor 101; also note column 10 lines 18-49 selection

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**frequency storing unit** for storing a selection frequency related to each topic; selector frequency assigned with ranking see column 10 lines 10-37 ].

5. Regarding claim 2, “said detector is configured to specify a broadcast program according to the appearance frequency of said keywords” [see: column 10 lines 18-49 selection **frequency storing unit** for storing a selection frequency related to each topic ].

6. Regarding claim 4, “a search condition setting unit configured to set ... configured to transmit request information ...” [note: column 3 lines 1-9 **search processing means**; column 13 lines 25-39].

7. Regarding claim 5, “said communication unit is configured to transmit request information ... storage device that stores broadcast content information ...” [note: column 2 lines 42-44 memory means stores program; Figure 1 (9) memory device; column 10 lines 19-50 ].

8. Regarding claim 6, “said communication unit configured to receive electronic program listings formed by broadcast content information ...” [note: column 11 lines 5-20 ].

9. The limitations of claims 10 and 12 parallel system claim 1; therefore they are rejected under the same rationale.

10. Regarding claim 7, Kanemitsu teaches the following limitations: “a storage medium configured to store broadcast information” see Figure 1 (9) memory device; “a receiver, including a processor, configured to receive search condition information” note Figure 1 917) and processor means column 2 lines 46-67; “search means for searching” note column 3 lines 1-9; “a detector configured to detect an appearance frequency” see column 8 line 62 through column 9 line 19 music is detected through the content descriptor 101; also note column 10 lines 18-49 selection frequency storing unit for storing a selection frequency related to each topic ; and “a transmitter configured to transmit information” column 3 lines 10-17.

11. Regarding claim 8, said detector is configured to generate information to specify a broadcast program, according to the appearance frequency [see: column 10 lines 19-50].

12. The limitations of claims 10 and 12 parallel and/or are similar in scope to system claim 1; therefore they are rejected under the same rationale.

13. The limitations of claims 11 and 13 parallel system claim 7; therefore they are rejected under the same rationale.

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14. Regarding claims 14 and 15, a display unit ... [note: column 8 lines 35-61 display priority associated with ranking may be defined by the end user; Figure 22 note “display” flow chart step (s16) ].

### ***Response to Arguments***

15. Applicant's arguments filed April 30, 2010 have been fully considered but they are not persuasive.

In the response Applicant argued Kanemitsu does not teach “said detector configured to generate a ranking of said broadcast programs in a descending order of a higher appearance frequency of said keyword as a search result, the detector configured to generate the ranking based on a number of times the keyword appears in each broadcast program” as recited in claim 1. In response to Applicant’s argument the Examiner respectfully maintains the rejection.

Note Kanemitsu teaches a “**broadcast receiving device** which clearly indicates supplementary information transmitted along with broadcast content, and which **facilitates program search**” note abstract. “When indicating a search screen image, the topic information items are extracted from the supplementary information as search keywords and indicated to the user in the screen image” abstract. *The system has the ability to detect a frequency appearance associated with a users preference.* Note, **column 2 lines 46-58:**

The broadcast receiving device of the present invention preferably includes a manipulation means for allowing a user to input his/her selection of a topic to be displayed, and means to change a display priority ranking (i.e. ability to define ranking order) stored in the memory means according to the number of times of topic selection by the user [see: column 2 lines 46-58; also see column 10 lines 44-47 "By changing the display priority ranking according to selection frequencies" ].

According to this aspect, the present invention can be adapted to individual users having different values towards each topic, offering information useful for each user. This is accomplished based on the fact that typically a user of a receiver repeatedly selects information which most highly suits his or her interests and tastes. A number of selection may favorably be expressed as a selection [column 2 lines 46-58].

Kanemitsu teaches frequency of terms with respect to ranking see column 9 lines 59-67 "topics which are selected at a higher frequency are arranged near the top of the list". The system provides for defining the order of a particular display [see: column 10 lines 10-36 change of display priority ranking]. Therefore, Kanemitsu provides for a detector configured to generate a ranking of broadcast programs, note *ability to select or define interest* column 9 lines 59-67, column 8 lines 35-55 and column 10 lines 38-40.



***Conclusion***

16. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

17. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Greta L. Robinson whose telephone number is (571)272-4118. The examiner can normally be reached on M-F 9:30AM-6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tony Mahmoudi can be reached on (571)272-4078. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Greta L. Robinson/

Primary Examiner, Art Unit 2169

July 12, 2010